

SCORE Search Results Details for Application 10591347 and Search Result 20110118_090621_us-10-591-347-2.rni.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 10591347 and Search Result 20110118_090621_us-10-591-347-2.rni.

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OM nucleic - nucleic search, using sw model

Run on: January 18, 2011, 09:21:18 ; Search time 572 Seconds
(without alignments)
68692.092 Million cell updates/sec

Title: US-10-591-347-2
Perfect score: 3424
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 21130652 seqs, 5737639395 residues

Total number of hits satisfying chosen parameters: 42261304

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*

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SUMMARIES

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3	3407.2	99.5	3412	3	US-09-085-957-32	Sequence 32, Appl
4	3407.2	99.5	3412	8	US-09-325-095-32	Sequence 32, Appl
5	3343.4	97.6	4300	11	US-11-443-428A-73308	Sequence 73308, A
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7	3236.8	94.5	3240	2	US-08-162-081B-34	Sequence 34, Appl
8	3236.8	94.5	3240	2	US-08-780-872-34	Sequence 34, Appl
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32	329.8	9.6	3868	3	US-09-949-016-709	Sequence 709, App
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c 42	329.8	9.6	6144	11	US-11-443-428A-621133	Sequence 621133,

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c	45	329.8	9.6	8165	11	US-11-443-428A-621102	Sequence 621102,

ALIGNMENTS

RESULT 1

US-08-162-081B-32

; Sequence 32, Application US/08162081B

; Patent No. 5824492

; GENERAL INFORMATION:

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; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022

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; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect

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; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/162,081B
; FILING DATE: February 7, 1994
; CLASSIFICATION: 435

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; PRIOR APPLICATION DATA:

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; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993

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; ATTORNEY/AGENT INFORMATION:

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; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256

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; TELECOMMUNICATION INFORMATION:

```

; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884

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; INFORMATION FOR SEQ ID NO: 32:

; SEQUENCE CHARACTERISTICS:

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; LENGTH: 3412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single or double
; TOPOLOGY: linear

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; FEATURE:

; NAME/KEY: CDS

; LOCATION: 1..3204
 ; OTHER INFORMATION: /standard_name= "CDS"
 US-08-162-081B-32

Query Match 99.5%; Score 3407.2; DB 2; Length 3412;
 Best Local Similarity 99.9%;
 Matches 3409; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTAAAA	312
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTAAAA	300
Qy	313	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTGGCT	372
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Qy	373	ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
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RESULT 2

US-08-780-872-32

; Sequence 32, Application US/08780872

; Patent No. 5846824

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
 ; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
 ; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
 ; APPLICANT: Stefano; Gout, Ivan Tarasovitch
 ; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
 ; TITLE OF INVENTION: THEIR PREPARATION AND USE
 ; NUMBER OF SEQUENCES: 50

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Felfe & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 ; COMPUTER: IBM PS/2
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/780,872
 ; FILING DATE: 09-JAN-1997
 ; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/162,081
 ; FILING DATE: February 7, 1994
 ; APPLICATION NUMBER: PCT/GB93/00761
 ; FILING DATE: 13 April 1993


```

;   ATTORNEY/AGENT INFORMATION:
;   NAME:  Pasqualini, Patricia A.
;   REGISTRATION NUMBER:  34,894
;   REFERENCE/DOCKET NUMBER:  LUD 5256
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE:  (212) 688-9200
;   TELEFAX:  (212) 838-3884
;   INFORMATION FOR SEQ ID NO:  32:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH:  3412 base pairs
;   TYPE:  nucleic acid
;   STRANDEDNESS:  single or double
;   TOPOLOGY:  linear
;   FEATURE:
;   NAME/KEY:  CDS
;   LOCATION:  1..3204
;   OTHER INFORMATION:  /standard_name= "CDS"
US-08-780-872-32

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Query Match 99.5%; Score 3407.2; DB 2; Length 3412;
 Best Local Similarity 99.9%;
 Matches 3409; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy      13  ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATGCCCCCAAGAATC  72
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Db      1  ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATGCCCCCAAGAATC  60

Qy      73  CTAGTGGAAATGTTTACTACCAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT  132
        |||
Db      61  CTAGTGGAAATGTTTACTACCAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT  120

Qy     133  ACATTAGTAAGTATAAAGCATGAAGTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA  192
        |||
Db     121  ACATTAGTAAGTATAAAGCATGAAGTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA  180

Qy     193  CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA  252
        |||
Db     181  CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA  240

Qy     253  GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCACCATTTTTAAAA  312
        |||
Db     241  GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCACCATTTTTAAAA  300

Qy     313  GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT  372
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Db     301  GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT  360

Qy     373  ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA  432
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Db     361  ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA  420

Qy     433  AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT  492
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Db     421  AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT  480

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Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
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Db	541	ATATATAATAAAATGGATAGAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	600
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Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTTGGATGTGATGAATAC	792
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Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
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Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
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Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTTGAACAGGTATC	1092
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Db	1141	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCGTGTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAATAATAAATCTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332

Db	1261	 CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1392
Db	1321	 ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	 GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCACAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	 AGCAGTGTGGTAAAGTTCACAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	 TCCCAGAGAAGCAGGATTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
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Db	1801	 CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTGTTTCGGTGCTTGGAA	1860
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Qy      3073  TACATTCTGAAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG 3132
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RESULT 3

US-09-085-957-32

; Sequence 32, Application US/09085957

; Patent No. 6274327

; GENERAL INFORMATION:

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; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA

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;      ZIP: 10022
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
;      COMPUTER: IBM PS/2
;      OPERATING SYSTEM: PC-DOS
;      SOFTWARE: Wordperfect
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/085,957
;      FILING DATE:
;      CLASSIFICATION:
;      PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 08/780,872
;      FILING DATE: 09-JAN-1997
;      APPLICATION NUMBER: 08/162,081
;      FILING DATE: February 7, 1994
;      APPLICATION NUMBER: PCT/GB93/00761
;      FILING DATE: 13 April 1993
;      ATTORNEY/AGENT INFORMATION:
;      NAME: Pasqualini, Patricia A.
;      REGISTRATION NUMBER: 34,894
;      REFERENCE/DOCKET NUMBER: LUD 5256
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (212) 688-9200
;      TELEFAX: (212) 838-3884
;      INFORMATION FOR SEQ ID NO: 32:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 3412 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: single or double
;      TOPOLOGY: linear
;      FEATURE:
;      NAME/KEY: CDS
;      LOCATION: 1..3204
;      OTHER INFORMATION: /standard_name= "CDS"
US-09-085-957-32

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Query Match 99.5%; Score 3407.2; DB 3; Length 3412;
 Best Local Similarity 99.9%;
 Matches 3409; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy      13  ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 72
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Db      1  ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 60

Qy      73  CTAGTGGGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT 132
          |||
Db      61  CTAGTGGGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT 120

Qy      133 ACATTAGTAATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA 192
          |||
Db      121 ACATTAGTAATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA 180

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Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
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Db	241		
Qy	313	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA	300
Db	301		
Qy	373	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAGATCCTCAATCGAGAAATTTGGTTTGGCT	372
Db	361		
Qy	433	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAGATCCTCAATCGAGAAATTTGGTTTGGCT	360
Db	421		
Qy	493	ATCGGCATGCCAGTGTGCGAATTGTATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	481		
Qy	553	ATCGGCATGCCAGTGTGCGAATTGTATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Db	541		
Qy	613	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	601		
Qy	673	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Db	661		
Qy	733	AGTAGAGCAATGTATGTCATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	721		
Qy	793	AGTAGAGCAATGTATGTCATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Db	781		
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Qy	1333	TTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	1321		
Qy	1393	TTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Db	1381		
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Db	1441		
Qy	1513	AGGATGCCCCAATTGAAGATGATGGCTAAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Db	1501		
Qy	1573	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
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Db	1741		

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Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
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Qy	1213	CGACTTTGCCTTTCCATTGTCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTGTCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
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Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATATTTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATATTTCGTATTATG	2460
Qy	2473	GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGCTGTCA	2532
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Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640

Qy	2653	CTCAAAGACAAGAACAAGGAGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGAGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCAACAATAGTAAC	2772
Db	2701	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCAACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTGTTTGACACAGGATTTC	2892
Db	2821	AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTGTTTGACACAGGATTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTGCAAGACCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTGCAAGACCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAAAGTGAAGAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCATTGAACTGAAAGATAAAGTGAAGAAATGAAAGCTCACTCTGGA	3240
Qy	3253	TTCCACACTGCACCTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCAC	3312
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Db	3301	AATCCATGAACAGCATTAGATTACAGCAAGAACAGAAATAAAATACTATATAAATTTAAA	3360
Qy	3373	TAATGTAACGCAACAGGGTTTGATAGCACTTAACTAGTTTCATTTCAAAA	3424
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US-09-325-095-32
; Sequence 32, Application US/09325095
; Patent No. 7422849
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
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; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/325,095
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/085,957
; FILING DATE:
; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
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; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single or double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..3204
; OTHER INFORMATION: /standard_name= "CDS"
US-09-325-095-32

Query Match 99.5%; Score 3407.2; DB 8; Length 3412;
 Best Local Similarity 99.9%;
 Matches 3409; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATGCCCCCAAGAAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATGCCCCCAAGAAATC	60
Qy	73	CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAAGTATAAAGCATGAAGTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	192
Db	121	ACATTAGTAAGTATAAAGCATGAAGTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTAAAA	312
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTAAAA	300
Qy	313	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTGGCT	372
Db	301	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTGGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAAGTA	660
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Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792

Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTC AAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTC AAT	1140
Qy	1153	CCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTTCCTCGTGCTGCT	1212
Db	1141	CCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTGTCTGTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTGTCTGTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCAGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560

Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCCAGATGTATTGCTTGGTAAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTCTGTTTCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTCTGTTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCAACAATAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCAACAATAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGAAG	2112
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGAAG	2100
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Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAAGAGG	2232
Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAAGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCTGCTCATCAA	2292
Db	2221	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCTGCTCATCAA	2280
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Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTGCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2412

Db	2341	TTGAATTGGGAGAACCCAGACATCATGTGCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2400
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Db	2461	GAAAATATCTGGCAAAATCAAGGCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
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Qy	2653	CTCAAAGACAAGAACAAGAGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGAGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTTC	2892
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Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAAT	3012
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Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTTCGAAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
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Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180

Qy	3193	ACAATTAACAGCATGTCATTGAACTGAAAGATAAAGCTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGTCATTGAACTGAAAGATAAAGCTGAGAAAATGAAAGCTCACTCTGGA	3240
Qy	3253	TTCCACACTGCTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCAC	3312
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RESULT 5

US-11-443-428A-73308

; Sequence 73308, Application US/11443428A

; Patent No. 7745391

; GENERAL INFORMATION:

; APPLICANT: Mintz, Liat

; APPLICANT: Xie, Hanqing

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; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 73308

; LENGTH: 4300

; TYPE: DNA

; ORGANISM: Homo sapiens

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; OTHER INFORMATION: n is a, c, g, or t

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; LOCATION: (27)..(27)
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; FEATURE:
; NAME/KEY: misc_feature
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; OTHER INFORMATION: n is a, c, g, or t
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; NAME/KEY: misc_feature
; LOCATION: (354)..(354)
; OTHER INFORMATION: n is a, c, g, or t
US-11-443-428A-73308

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Query Match 97.6%; Score 3343.4; DB 11; Length 4300;
 Best Local Similarity 98.9%;
 Matches 3387; Conservative 0; Mismatches 37; Indels 2; Gaps 2;

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Qy      61 CCCCCAAGAATCCTAGTGGAAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGC 120
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Db      232 CCCCCAAGAATCCTAGTAGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGC 291

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Qy      241 GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAA 300
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Qy      301 CCATTTTTTAAAGTAATTGTAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA 360
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Db	472	CCCTTTTTAAAGTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	531
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Db	532		
Db	532	ATTGGTTTTGCTATCGGCATGCCAGTGTGGAATTTGATATGGTTAAAGATCCAGAAGTA	591
Qy	421	CAGGACTTCCGAAGAAATATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTT	480
Db	592		
Db	592	CAGGACTTCCGAAGAAATATTCTGAACGTTTGTAAGAAGCTGTGGATCTTAGGGACCTC	651
Qy	481	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAG	540
Db	652		
Db	652	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCTCCAAATGTAGAATCTTCACCAGAA	711
Qy	541	CTGCCAAAGCACATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTA	600
Db	712		
Db	712	TTGCCAAAGCACATATATAATAAATTAGATAAAGGGCAAATAATAGTGGTGATCTGGGTA	771
Qy	601	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAATCAACCATGACTGTGTG	660
Db	772		
Db	772	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAATCAACCATGACTGTGTA	831
Qy	661	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCT	720
Db	832		
Db	832	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCCTCT	891
Qy	721	GAACAATTAAGTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGA	780
Db	892		
Db	892	GAACAATTAAGTCTGTGTTTTAGAATATCAGGGCAAGTATATTTAAAGTGTGTGGA	951
Qy	781	TGTGATGAATACTTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	840
Db	952		
Db	952	TGTGATGAATACTTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	1011
Qy	841	ATAATGCTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAA	900
Db	1012		
Db	1012	ATAATGCTTGGGAGGATGCCCAATTTGATGTTGATGGCTAAAGAAAGCCTTTATTCTCAA	1071
Qy	901	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCA	960
Db	1072		
Db	1072	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCA	1131
Qy	961	TATATGAATGGAGAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATA	1020
Db	1132		
Db	1132	TATATGAATGGAGAAACATCTACAAAAATCCCTTTGGGTTATAAATAGTGCACCTCAGAATA	1191
Qy	1021	AAAAATCTTTGTGCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTT	1080
Db	1192		
Db	1192	AAAAATCTTTGTGCAACCTACGTGAATGTAAATATTCGAGACATTGATAAGATCTATGTT	1251
Qy	1081	CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTA	1140
Db	1252		
Db	1252	CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTA	1311

Qy	1141	CCTTGTTCGAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTT	1200
Db	1312	CCTTGTTCGAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTT	1371
Qy	1201	CCTCGTGCTGCTCGACTTTGCCTTTCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1260
Db	1372	CCTCGTGCTGCTCGACTTTGCCTTTCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1431
Qy	1261	GAGGAACACTGTCCATTGGCATGGGAAATATAAACTTGTTGATTACACAGACACTCTA	1320
Db	1432	GAGGAACACTGTCCATTGGCATGGGAAATATAAACTTGTTGATTACACAGACACTCTA	1491
Qy	1321	GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTG	1380
Db	1492	GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTG	1551
Qy	1381	AACCCTATTGGTGTTACTGGATCAAATCCAAATAAGAAACTCCATGCTTAGAGTTGGAG	1440
Db	1552	AACCCTATTGGTGTTACTGGATCAAATCCAAATAAGAAACTCCATGCTTAGAGTTGGAG	1611
Qy	1441	TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCC	1500
Db	1612	TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCC	1671
Qy	1501	AATTGGTCTGTATCCCAGAGAAGCAGGATTAGCTATTCCCACGAGGACTGAGTAACAGA	1560
Db	1672	AATTGGTCTGTATCCCAGAGAAGCAGGATTAGCTATTCCCACGAGGACTGAGTAACAGA	1731
Qy	1561	CTAGCTAGAGACAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1620
Db	1732	CTAGCTAGAGACAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1791
Qy	1621	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACAC	1680
Db	1792	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACAC	1851
Qy	1681	TATTGTGTAACATATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1740
Db	1852	TATTGTGTAACATATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1911
Qy	1741	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAA	1800
Db	1912	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAA	1971
Qy	1801	CAGGCTATGGAACCTCTGGACTGTAATTACCCAGATCCTATGGTTTCAGGTTTTGCTGTT	1860
Db	1972	CAGGCTATGGAACCTCTGGACTGTAATTACCCAGATCCTATGGTTTCAGGTTTTGCTGTT	2031
Qy	1861	CGGTGCTTGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	1920
Db	2032	CGGTGCTTGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	2091
Qy	1921	CAGGTCTCTAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAA	1980

Db	2092	CAGGTCTCTAAATATGAACAATATTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAA	2151
Qy	1981	GCATTGACTAATCAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTGAGATGCAC	2040
Db	2152	GCATTGACTAATCAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTGAGATGCAC	2211
Qy	2041	AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGAGATCCTATTGTCGTCATGTGGG	2100
Db	2212	AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGAGATCCTATTGTCGTCATGTGGG	2271
Qy	2101	ATGTATTGAAGCACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAACT	2160
Db	2272	ATGTATTGAAGCACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAACT	2331
Qy	2161	GACATTCTCAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTT	2220
Db	2332	GACATTCTCAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTT	2391
Qy	2221	GAGCAAAATGAGGCGACCAGATTTCATGGATGCCTTACAGGGCTTGCTGTCTCCTCTAAAC	2280
Db	2392	GAGCAAAATGAGGCGACCAGATTTCATGGATGCCTTACAGGGCTTGCTGTCTCCTCTAAAC	2451
Qy	2281	CCTGCTCATCAACTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGTCTTCTGCAAAA	2340
Db	2452	CCTGCTCATCAACTAGGAAACCTCAGGCTTGAAGAGTGTGCAATTATGTCTTCTGCAAAA	2511
Qy	2341	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTGAGAGTTACTGTTTCAGAAC	2400
Db	2512	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTGAGAGTTACTGTTTCAGAAC	2571
Qy	2401	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATT	2460
Db	2572	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATT	2631
Qy	2461	ATTTCGTATTATGGAATAATCTGGCAAAATCAAGGCTTGATCTTCGAATGTTACCTTAT	2520
Db	2632	ATTTCGTATTATGGAATAATCTGGCAAAATCAAGGCTTGATCTTCGAATGTTACCTTAT	2691
Qy	2521	GGTTGTCTGTCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACT	2580
Db	2692	GGTTGTCTGTCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACT	2751
Qy	2581	ATTATGCAAATTCAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2640
Db	2752	ATTATGCAAATTCAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2811
Qy	2641	CTACATCAGTGGCTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTG	2700
Db	2812	CTACATCAGTGGCTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTG	2871
Qy	2701	TTTACAGGTTTCATGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2760
Db	2872	TTTACAGGTTTCATGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2931

Qy	2761	CACAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2820
Db	2932	CACAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2991
Qy	2821	TTTTTGGATCACAAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTGTTTG	2880
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Qy	2881	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	2940
Db	3052	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	3111
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Qy	3061	GATGACATTGCATACATTCGAAAGACCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTG	3120
Db	3232	GATGACATTGCATACATTCGAAAGACCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTG	3291
Qy	3121	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3180
Db	3292	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3351
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Db	3532	CTATATAATTTAAATAATGTAACGCAACAGGGTTTGATAGCACTTAACTAGTTCATT	3591
Qy	3419	TCAAAA 3424	
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RESULT 6

US-11-443-428A-73313

; Sequence 73313, Application US/11443428A

; Patent No. 7745391

; GENERAL INFORMATION:

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; APPLICANT: Mintz, Liat
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; APPLICANT: Dahari, Dvir
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; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 73313
; LENGTH: 4354
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (23)..(23)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (27)..(27)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (30)..(30)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (59)..(59)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (64)..(64)
; OTHER INFORMATION: n is a, c, g, or t
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; LOCATION: (86)..(86)
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; NAME/KEY: misc_feature
; LOCATION: (90)..(90)
; OTHER INFORMATION: n is a, c, g, or t
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; NAME/KEY: misc_feature
 ; LOCATION: (354)..(354)
 ; OTHER INFORMATION: n is a, c, g, or t
 US-11-443-428A-73313

Query Match 97.6%; Score 3343.4; DB 11; Length 4354;
 Best Local Similarity 98.9%;
 Matches 3387; Conservative 0; Mismatches 37; Indels 2; Gaps 2;

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Qy      1 AGGATCAGACAATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGTATG 60
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Db     172 AGAATCAGACAATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGTATG 231

Qy     61 CCCCCAAGAATCCTAGTGGAAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGC 120
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     232 CCCCCAAGAATCCTAGTAGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGC 291

Qy    121 CTCCGTGAGGCTACATTAGTAACATAAAGCATGAACATATTTAAAGAAGCAAGAAAATAC 180
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     292 CTCCGTGAGGCTACATTAATAACCATAAAGCATGAACATATTTAAAGAAGCAAGAAAATAC 351

Qy    181 CCTCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA 240
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Db     352 CCNCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA 411

Qy    241 GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAA 300
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Db     412 GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAA 471

Qy    301 CCATTTTTTAAAGTAATTGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA 360
      || ||||||||||||||||||||||||||||||||||||||||||||||||||
Db     472 CCCTTTTTTAAAGTAATTGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA 531

Qy    361 ATTGGTTTTGCTATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTA 420
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Db     532 ATTGGTTTTGCTATCGGCATGCCAGTGTGGAATTTGATATGGTTAAAGATCCAGAAGTA 591

Qy    421 CAGGACTTCCGAAGAAATATTCTTAATGTTTGTAAGAAAGCTGTGGATCTTAGGGATCTT 480
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Db     592 CAGGACTTCCGAAGAAATATTCTGAACGTTTGTAAGAAAGCTGTGGATCTTAGGGACCTC 651

Qy    481 AATTCACCTCATAGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAG 540
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Db     652 AATTCACCTCATAGTAGAGCAATGTATGTCTATCCTCCAAATGTAGAATCTTCACCAGAA 711

Qy    541 CTGCCAAAGCACATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGTA 600
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Db     712 TTGCCAAAGCACATATATAATAAATTAGATAAAGGGCAAATAATAGTGGTGATCTGGGTA 771

Qy    601 ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG 660
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Db     772 ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG 831

Qy    661 CCAGAACAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCT 720

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Db	832		CCAGAACAGTAATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCTCT	891
Qy	721		GAACAATTAAGCTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGA	780
Db	892		GAACAACTAAAGCTCTGTGTTTTAGAATATCAGGGCAAGTATATTTTAAAGTGTGTGGA	951
Qy	781		TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	840
Db	952		TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	1011
Qy	841		ATAATGCTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAA	900
Db	1012		ATAATGCTTGGGAGGATGCCCAATTTGATGTTGATGGCTAAAGAAAGCCTTTATTCTCAA	1071
Qy	901		CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCA	960
Db	1072		CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCA	1131
Qy	961		TATATGAATGGAGAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATA	1020
Db	1132		TATATGAATGGAGAAACATCTACAAAAATCCCTTTGGGTTATAAATAGTGCACCTCAGAATA	1191
Qy	1021		AAAAATCTTTGTGCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTT	1080
Db	1192		AAAAATCTTTGTGCAACCTACGTGAATGTAATATTCGAGACATTGATAAGATCTATGTT	1251
Qy	1081		CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTA	1140
Db	1252		CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTA	1311
Qy	1141		CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATATGATATATACATTCCTGATCTT	1200
Db	1312		CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATATGATATATACATTCCTGATCTT	1371
Qy	1201		CCTCGTGCTGCTCGACTTTGCCCTTCCATTGCTCTGTAAAGGCCGAAAGGGTGCTAAA	1260
Db	1372		CCTCGTGCTGCTCGACTTTGCCCTTCCATTGCTCTGTAAAGGCCGAAAGGGTGCTAAA	1431
Qy	1261		GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1320
Db	1432		GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1491
Qy	1321		GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTG	1380
Db	1492		GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTG	1551
Qy	1381		AACCCTATTGGTGTTACTGGATCAAAATCCAAATAAGAAACTCCATGCTTAGAGTTGGAG	1440
Db	1552		AACCCTATTGGTGTTACTGGATCAAAATCCAAATAAGAAACTCCATGCTTAGAGTTGGAG	1611
Qy	1441		TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCC	1500
Db	1612		TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCC	1671

Qy	1501	AATTGGTCTGTATCCCGAGAAGCAGGATTAGCTATTCCCACGCAGGACTGAGTAACAGA	1560
Db	1672	AATTGGTCTGTATCCCGAGAAGCAGGATTAGCTATTCCCACGCAGGACTGAGTAACAGA	1731
Qy	1561	CTAGCTAGAGACAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1620
Db	1732	CTAGCTAGAGACAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1791
Qy	1621	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAGATTTCTATGGAGTCACAGACAC	1680
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Qy	1681	TATTGTGTAACATATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1740
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Db	1912	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCTCCAATCAAACCTGAA	1971
Qy	1801	CAGGCTATGGAACCTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTT	1860
Db	1972	CAGGCTATGGAACCTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTT	2031
Qy	1861	CGGTGCTTGGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	1920
Db	2032	CGGTGCTTGGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	2091
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Db	2272	ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGAAAAAGCTCATTAACTTAACT	2331
Qy	2161	GACATTCTCAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTT	2220
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Qy	2221	GAGCAATGAGGCGACCAGATTTTCATGGATGCCCTACAGGCTTGCTGTCTCCTCTAAAC	2280
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 Db 3472 ATAGGAATTGCACAATCCATGAACAGCATTAGAATTTACAGCAAGAACAGAAATAAAATA 3531

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 Db 3532 CTATATAATTTAAATAATGTAACGCAACAGGGTTTGATAGCACTTAACTAGTTCATT 3591

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 Db 3592 TCAAAA 3597

RESULT 7

US-08-162-081B-34

; Sequence 34, Application US/08162081B

; Patent No. 5824492

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
 ; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
 ; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
 ; APPLICANT: Stefano; Gout, Ivan Tarasovitch
 ; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
 ; TITLE OF INVENTION: THEIR PREPARATION AND USE
 ; NUMBER OF SEQUENCES: 50

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Felte & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 ; COMPUTER: IBM PS/2
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/162,081B
 ; FILING DATE: February 7, 1994
 ; CLASSIFICATION: 435

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-162-081B-34

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Query Match 94.5%; Score 3236.8; DB 2; Length 3240;
 Best Local Similarity 99.9%;
 Matches 3238; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy      13  ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 72
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Db      1  ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 60

Qy      73  CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT 132
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61  CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT 120

Qy     133  ACATTAGTAACTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA 192
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121  ACATTAGTAACTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA 180

Qy     193  CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA 252
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181  CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA 240

Qy     253  GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCACCATTTTTTAAAA 312
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241  GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCACCATTTTTTAAAA 300

Qy     313  GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTGGCT 372
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     301  GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTGGCT 360

Qy     373  ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 432
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     361  ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 420

Qy     433  AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT 492
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     421  AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT 480

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Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTGAGACATTGACAAGATTATGTTTCAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAATATTGAGACATTGACAAGATTATGTTTCAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTTCCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTGTCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTGTCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1332

Db	1261	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCAGAGAAGCAGGATTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAAGGAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAAGGAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTCTATGGAGTCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAAATTACCCAGATCCTATGGTTCGAGGTTTGTCTGTTCCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGTAAATTACCCAGATCCTATGGTTCGAGGTTTGTCTGTTCCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCAACAATAAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCAACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGGAAG	2112
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGGAAG	2100

Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGAAAAGCTCATTAACTTAAGTACATTCTCAAA	2172
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Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGAGG	2232
Db	2161		2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCTCATCAA	2292
Db	2221		2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281		2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTGCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2412
Db	2341		2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATATTTCGTATTATG	2472
Db	2401		2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGCTGTGCA	2532
Db	2461		2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2592
Db	2521		2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581		2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641		2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701		2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761		2820
Qy	2833	AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTC	2892
Db	2821		2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952

Db	2881	TTAATAGTGAATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTGCAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTCATG	3132
Db	3061	TACATTGCAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240

RESULT 8

US-08-780-872-34

; Sequence 34, Application US/08780872

; Patent No. 5846824

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu

; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter

; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,

; APPLICANT: Stefano; Gout, Ivan Tarasovitch

; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,

; TITLE OF INVENTION: THEIR PREPARATION AND USE

; NUMBER OF SEQUENCES: 50

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Felte & Lynch

; STREET: 805 Third Avenue

; CITY: New York

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; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/780,872

; FILING DATE: 09-JAN-1997

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/162,081

; FILING DATE: February 7, 1994


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; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-780-872-34
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Query Match          94.5%;  Score 3236.8;  DB 2;  Length 3240;
Best Local Similarity 99.9%;
Matches 3238;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;
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Qy      13  ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATGCCCAAGAAATC 72
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Db       1  ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATGCCCAAGAAATC 60

Qy      73  CTAGTGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT 132
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Db      61  CTAGTGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT 120

Qy     133  ACATTAGTAAGTATAAGCATGAAGTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA 192
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Db     121  ACATTAGTAAGTATAAGCATGAAGTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA 180

Qy     193  CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA 252
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Db     181  CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA 240

Qy     253  GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA 312
         |||
Db     241  GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA 300

Qy     313  GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT 372
         |||
Db     301  GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT 360

Qy     373  ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 432
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Db     361  ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 420

Qy     433  AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT 492
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Db     421  AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT 480

Qy     493  AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC 552
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Db	481		AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553		ATATATAATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541		ATATATAATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613		AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	672
Db	601		AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	660
Qy	673		ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAATA	732
Db	661		ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733		CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792
Db	721		CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	780
Qy	793		TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781		TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853		AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841		AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913		TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	972
Db	901		TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	960
Qy	973		GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961		GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033		GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTTCAACAGGTATC	1092
Db	1021		GCAACCTATGTGAATGTAATATTCGAGACATTGACAAGATTTATGTTTCAACAGGTATC	1080
Qy	1093		TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCGAAT	1152
Db	1081		TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCGAAT	1140
Qy	1153		CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCTGCTGCT	1212
Db	1141		CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCTGCTGCT	1200
Qy	1213		CGACTTTGCCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201		CGACTTTGCCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273		CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261		CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1320

Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTAGCTATTTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCAGAGAAGCAGGATTAGCTATTTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTACGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTACGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACATTTTCTTTTGGCATTAAAACTGAGATGCACAATAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACATTTTCTTTTGGCATTAAAACTGAGATGCACAATAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGAAG	2112
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAGCTCATTAACTTAACGTACATTCTCAA	2172

Db	2101		CACCTGAATAGGCAAGTCGAGGCAATGGAAAGCTCATTAACTTAAGTACATCTCTCAA	2160
Qy	2173		CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGAGG	2232
Db	2161		CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGAGG	2220
Qy	2233		CGACCAGATTTCATGGATGCCCTACAGGGCTTGCTGTCTCTCTAAACCTGCTCATCAA	2292
Db	2221		CGACCAGATTTCATGGATGCCCTACAGGGCTTGCTGTCTCTCTAAACCTGCTCATCAA	2280
Qy	2293		CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281		CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353		TTGAATTGGGAGAACCAGACATCATGTCAGAGTTACTGTTTCAGAACATGAGATCATC	2412
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Qy	2413		TTTAAAAATGGGGATGATTACGGCAAGATATGCTAACACTTCAAATATTTCGTATTATG	2472
Db	2401		TTTAAAAATGGGGATGATTACGGCAAGATATGCTAACACTTCAAATATTTCGTATTATG	2460
Qy	2473		GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461		GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533		ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2592
Db	2521		ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2580
Qy	2593		CAGTGCAAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581		CAGTGCAAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653		CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641		CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713		TGTGCTGGATACTGTGTAGCTACCTTCATTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701		TGTGCTGGATACTGTGTAGCTACCTTCATTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773		ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761		ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833		AAGAAGAAAAAATTGGTTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTC	2892
Db	2821		AAGAAGAAAAAATTGGTTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTC	2880
Qy	2893		TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881		TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAGACAAGAGAATTTGAGAGGTTT	2940

Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTGCAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTGCAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240

RESULT 9

US-09-085-957-34

; Sequence 34, Application US/09085957

; Patent No. 6274327

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
 ; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
 ; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
 ; APPLICANT: Stefano; Gout, Ivan Tarasovitch
 ; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
 ; TITLE OF INVENTION: THEIR PREPARATION AND USE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Felfe & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 ; COMPUTER: IBM PS/2
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/085,957

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/780,872

; FILING DATE: 09-JAN-1997

; APPLICATION NUMBER: 08/162,081

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; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
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; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-085-957-34

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Query Match 94.5%; Score 3236.8; DB 3; Length 3240;
 Best Local Similarity 99.9%;
 Matches 3238; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy      13  ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 72
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Db      1  ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 60

Qy      73  CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT 132
        |||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61  CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT 120

Qy     133  ACATTAGTAAGTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA 192
        |||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121  ACATTAGTAAGTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA 180

Qy     193  CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA 252
        |||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181  CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA 240

Qy     253  GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCACCATTTTTTAAAA 312
        |||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241  GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCACCATTTTTTAAAA 300

Qy     313  GTAATTGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTGGCT 372
        |||||||||||||||||||||||||||||||||||||||||||||||||||
Db     301  GTAATTGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTGGCT 360

Qy     373  ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 432
        |||||||||||||||||||||||||||||||||||||||||||||||||||
Db     361  ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 420

Qy     433  AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT 492
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Db     421  AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT 480

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Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTATGTTTCAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAATATTTCGAGACATTGACAAGATTATGTTTCAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTTCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTTCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTGTCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTGTCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1332

Db	1261	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCAGAGAAGCAGGATTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAAGGAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAAGGAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTCTATGGAGTCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCAACAATAAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCAACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGGAAG	2112
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGGAAG	2100

Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGAAAAGCTCATTAACTTAAGTACATTCTCAAA	2172
Db	2101	CACCTGAATAGGCAAGTCGAGGCAATGAAAAGCTCATTAACTTAAGTACATTCTCAAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGAGG	2232
Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCTCATCA	2292
Db	2221	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCTCATCA	2280
Qy	2293	CTAGGAAACCTCAGGCCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTAGGAAACCTCAGGCCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTGCAGAGTTACTGTTTCAGAACATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAACCCAGACATCATGTGCAGAGTTACTGTTTCAGAACATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATATTTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATATTTCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTC	2892
Db	2821	AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952

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Db      2881  TTAATAGTGTATTAGTAAAGGAGGCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT 2940
Qy      2953  CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT 3012
        |||
Db      2941  CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT 3000
Qy      3013  CTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA 3072
        |||
Db      3001  CTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA 3060
Qy      3073  TACATTCCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG 3132
        |||
Db      3061  TACATTCCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG 3120
Qy      3133  AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC 3192
        |||
Db      3121  AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC 3180
Qy      3193  ACAATTAACAGCATGCATTGAACTGAAAGATAAAGCTGAGAAAATGAAAGCTCACTCTGGA 3252
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Db      3181  ACAATTAACAGCATGCATTGAACTGAAAGATAAAGCTGAGAAAATGAAAGCTCACTCTGGA 3240

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RESULT 10

US-09-325-095-34

; Sequence 34, Application US/09325095

; Patent No. 7422849

; GENERAL INFORMATION:

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; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/325,095
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/085,957
; FILING DATE:

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; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
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; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-325-095-34

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Query Match          94.5%; Score 3236.8; DB 8; Length 3240;
Best Local Similarity 99.9%;
Matches 3238; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy      13  ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 72
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Db      1  ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 60

Qy      73  CTAGTGGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT 132
         |||
Db      61  CTAGTGGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT 120

Qy      133 ACATTAGTAAGTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA 192
         |||
Db      121 ACATTAGTAAGTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA 180

Qy      193 CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA 252
         |||
Db      181 CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA 240

Qy      253 GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA 312
         |||
Db      241 GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA 300

Qy      313 GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT 372
         |||
Db      301 GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT 360

Qy      373 ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 432
         |||
Db      361 ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 420

Qy      433 AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT 492

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Db	421	 AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	 AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	 ATATATAATAAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGACAAGTA	672
Db	601	 AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	 ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	 CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	 TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	 AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	972
Db	901	 TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	 GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	 GCAACCTATGTGAATGTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCGAAT	1152
Db	1081	 TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCGAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTCGTGCTGCT	1212
Db	1141	 CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTGTCTGTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	 CGACTTTGCCTTTCCATTGTCTGTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260

Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCAGAGAAGCAGGATTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAAGGGAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAAGGGAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTCTGTTCCGGTGCTGGAA	1872
Db	1801	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTCTGTTCCGGTGCTGGAA	1860
Qy	1873	AAATATTTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGAAG	2112

Db	2041		AGCCAGAGGTTTGGCCTGCTTTTGGAGTCTATTGTCTGTCATGTGGGATGTATTGGAAG	2100
Qy	2113		CACCTGAATAGGCAAGTCGAGGCAATGAAAAGCTCATTAACTTAAGTACATTCTCAAA	2172
Db	2101		CACCTGAATAGGCAAGTCGAGGCAATGAAAAGCTCATTAACTTAAGTACATTCTCAAA	2160
Qy	2173		CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAAATGAGG	2232
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Qy	2233		CGACCAGATTTTACATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCTCATCAA	2292
Db	2221		CGACCAGATTTTACATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCTCATCAA	2280
Qy	2293		CTAGGAAACCTCAGGCCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281		CTAGGAAACCTCAGGCCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353		TTGAATTGGGAGAACCCAGACATCATGTCAAGATTACTGTTTCAGAACAAATGAGATCATC	2412
Db	2341		TTGAATTGGGAGAACCCAGACATCATGTCAAGATTACTGTTTCAGAACAAATGAGATCATC	2400
Qy	2413		TTTAAAAATGGGGATGATTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2472
Db	2401		TTTAAAAATGGGGATGATTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2460
Qy	2473		GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461		GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533		ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2592
Db	2521		ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2580
Qy	2593		CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581		CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653		CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641		CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713		TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701		TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773		ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761		ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833		AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTC	2892
Db	2821		AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTC	2880

Qy	2893	TTAATAGT	GATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGT	GATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGAT	GTGTTACAAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGAT	GTGTTACAAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCT	CAATGATGCTTGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCT	CAATGATGCTTGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATT	CGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATT	CGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAA	TGAATGATGCACATCATGGTGGCTGGACAACAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAA	TGAATGATGCACATCATGGTGGCTGGACAACAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTA	AAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTA	AAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240

RESULT 11

US-11-443-428A-73309

; Sequence 73309, Application US/11443428A

; Patent No. 7745391

; GENERAL INFORMATION:

; APPLICANT: Mintz, Liat
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 ; APPLICANT: Hermesh, Chen
 ; APPLICANT: Azar, Idit
 ; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 73309

; LENGTH: 4300

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

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; LOCATION: (15)..(15)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (23)..(23)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (27)..(27)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (30)..(30)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (59)..(59)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
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; FEATURE:
; NAME/KEY: misc_feature
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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (90)..(90)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (354)..(354)
; OTHER INFORMATION: n is a, c, g, or t
US-11-443-428A-73309

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Query Match 94.2%; Score 3225.4; DB 11; Length 4300;
 Best Local Similarity 97.3%;
 Matches 3333; Conservative 0; Mismatches 37; Indels 56; Gaps 3;

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Qy      1  AGGATCAGAACAAATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATG  60
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Db      172  AGAATCAGAACAAATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATG  231

Qy      61  CCCCCAAGAAATCCTAGTGGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGC  120
      |||||
Db      232  CCCCCAAGAAATCCTAGTAGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGC  291

Qy      121  CTCCTGAGGCTACATTAGTAACATATAAAGCATGAAGTATTTAAAGAAGCAAGAAAATAC  180
      |||||
Db      292  CTCCTGAGGCTACATTAATAACCATAAAGCATGAAGTATTTAAAGAAGCAAGAAAATAC  351

Qy      181  CCTCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA  240
      || |||||

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Db	352	CCNCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA	411
Qy	241	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAA	300
Db	412	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTCAA	471
Qy	301	CCATTTTTTAAAGTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	360
Db	472	CCCTTTTTTAAAGTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	531
Qy	361	ATTGGTTTTGCTATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTA	420
Db	532	ATTGGTTTTGCTATCGGCATGCCAGTGTGGAATTTGATATGGTTAAAGATCCAGAAGTA	591
Qy	421	CAGGACTTCCGAAGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTT	480
Db	592	CAGGACTTCCGAAGAAATATTCTGAACGTTTGTAAAGAAGCTGTGGATCTTAGGGACCTC	651
Qy	481	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAG	540
Db	652	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCTCCAAATGTAGAATCTTCACCAGAA	711
Qy	541	CTGCCAAAGCACATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGTA	600
Db	712	TTGCCAAAGCACATATATAATAAATTAGATAAAGGGCAAATAATAGTGGTGATCTGGGTA	771
Qy	601	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	660
Db	772	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	831
Qy	661	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCT	720
Db	832	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCCTCT	891
Qy	721	GAACAATTAAGTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGA	780
Db	892	GAACAATTAAGTCTGTGTTTTAGAATATCAGGGCAAGTATTTTAAAGTGTGTGGA	951
Qy	781	TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	840
Db	952	TGTGATGAATACTTCTAGA-----	971
Qy	841	ATAATGCTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAA	900
Db	972	-----GATGCCCAATTTGATGTTGATGGCTAAAGAAAGCCTTTATTCTCAA	1017
Qy	901	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCA	960
Db	1018	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCA	1077
Qy	961	TATATGAATGGAGAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATA	1020
Db	1078	TATATGAATGGAGAAACATCTACAAAAATCCCTTTGGGTTATAAATAGTGCACTCAGAATA	1137

Qy	1021	AAAAATCTTTGTGCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTT	1080
Db	1138	AAAAATCTTTGTGCAACCTACGTGAATGTAATATTCGAGACATTGATAAGATCTATGTT	1197
Qy	1081	CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTA	1140
Db	1198	CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTA	1257
Qy	1141	CCTTGTTCGAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCGATCTT	1200
Db	1258	CCTTGTTCGAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCGATCTT	1317
Qy	1201	CCTCGTGCTGCTCGACTTTGCCCTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1260
Db	1318	CCTCGTGCTGCTCGACTTTGCCCTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1377
Qy	1261	GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1320
Db	1378	GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1437
Qy	1321	GTATCTGGAATAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1380
Db	1438	GTATCTGGAATAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1497
Qy	1381	AACCCTATTGGTGTTACTGGATCAAATCCAAATAAGAAACTCCATGCTTAGAGTTGGAG	1440
Db	1498	AACCCTATTGGTGTTACTGGATCAAATCCAAATAAGAAACTCCATGCTTAGAGTTGGAG	1557
Qy	1441	TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCC	1500
Db	1558	TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCC	1617
Qy	1501	AATTGGTCTGTATCCCAGAGAAGCAGGATTTAGCTATTTCCACGACGAGTCTAGTAACAGA	1560
Db	1618	AATTGGTCTGTATCCCAGAGAAGCAGGATTTAGCTATTTCCACGACGAGTCTAGTAACAGA	1677
Qy	1561	CTAGCTAGAGACAATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1620
Db	1678	CTAGCTAGAGACAATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1737
Qy	1621	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACAC	1680
Db	1738	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACAC	1797
Qy	1681	TATTGTGTAACATATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1740
Db	1798	TATTGTGTAACATATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1857
Qy	1741	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCTCCAATCAAACCTGAA	1800
Db	1858	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCTCCAATCAAACCTGAA	1917
Qy	1801	CAGGCTATGGAATCTTGGACTGTAATTACCCAGATCCTATGGTTTCAGGTTTGTGCTGT	1860

Db	1918	CAGGCTATGGAACCTTCGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTT	1977
Qy	1861	CGGTGCTTGGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	1920
Db	1978	CGGTGCTTGGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	2037
Qy	1921	CAGGTCTCTAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAA	1980
Db	2038	CAGGTCTCTAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAA	2097
Qy	1981	GCATTGACTAATCAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTGAGATGCAC	2040
Db	2098	GCATTGACTAATCAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTGAGATGCAC	2157
Qy	2041	AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGAGATCCTATTGTCGTGCATGTGGG	2100
Db	2158	AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGAGATCCTATTGTCGTGCATGTGGG	2217
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Db	2218	ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGAAAAAGCTCATTAACTTAACT	2277
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Db	2278	GACATTCTCAAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTT	2337
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Db	2458	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAAC	2517
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Db	2518	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATT	2577
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Db	2638	GGTTGCTGTGCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACT	2697
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Db	2698	ATTATGCAAATTCAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2757

Qy	2641	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2700
Db	2758	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2817
Qy	2701	TTTACACGTTTCATGTGCTGGTACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2760
Db	2818	TTTACACGTTTCATGTGCTGGTACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2877
Qy	2761	CACAATAGTAACATCATGTGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2820
Db	2878	CACAATAGTAACATCATGTGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2937
Qy	2821	TTTTTGGATCACAAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTGTTTG	2880
Db	2938	TTTTTGGATCACAAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTGTTTG	2997
Qy	2881	ACACAGGATTTCCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	2940
Db	2998	ACACAGGATTTCCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	3057
Qy	2941	TTTGAGAGGTTTCAGGAGATGTGTTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAAT	3000
Db	3058	TTTGAGAGGTTTCAGGAGATGTGTTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAAT	3117
Qy	3001	CTCTTCATAAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3060
Db	3118	CTCTTCATAAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3177
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Qy	3121	GAGTATTTTCATGAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3180
Db	3238	GAGTATTTTCATGAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3297
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Db	3298	TGGATCTTCACACAATTAACAGCATGCATTGAACGTGAAAAGATAACTGAGAAAATGAA	3357
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Db 3538 TCAAAA 3543

RESULT 12

US-08-162-081B-35

; Sequence 35, Application US/08162081B

; Patent No. 5824492

; GENERAL INFORMATION:

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; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,

; APPLICANT: Stefano; Gout, Ivan Tarasovitch

; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,

; TITLE OF INVENTION: THEIR PREPARATION AND USE

; NUMBER OF SEQUENCES: 50

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; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/162,081B

; FILING DATE: February 7, 1994

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/GB93/00761

; FILING DATE: 13 April 1993

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; INFORMATION FOR SEQ ID NO: 35:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3207 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-162-081B-35

Query Match 87.9%; Score 3008.6; DB 2; Length 3207;

Best Local Similarity 96.1%;

Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy 13 ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 72

Db	1		ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATGCCCAAGAAATC	60
Qy	73	CTAGTGGAAATGTTTACTACCAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132	
Db	61	CTAGTAGAATGTTTACTACCAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120	
Qy	133	ACATTAGTAATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	192	
Db	121	ACGTTAATAACGATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	180	
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252	
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240	
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTAAAA	312	
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTCAACCTTTTAAAA	300	
Qy	313	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTGGCT	372	
Db	301	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTGGCT	360	
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432	
Db	361	ATCGGCATGCCAGTGTGGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420	
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492	
Db	421	AGAAATATTCTCAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480	
Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552	
Db	481	AGTAGAGCAATGTATGTTTATCTCCTCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC	540	
Qy	553	ATATATAATAAAATGGATAGAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	612	
Db	541	ATATATAATAAAATGGATAAAGGGCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	600	
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672	
Db	601	AATAATGACAAACAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660	
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATAAAA	732	
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAATAAAA	720	
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792	
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTATATTTTAAAGTGTGTGGATGTGATGAATAC	780	
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852	
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840	

Qy	853	AGGATGCCCAATTGGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTGATGCTGATGGCTAAAGAAAGCCTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGTGCCTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTATGTTTCAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTATGTTTCAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCTCTGATCTTCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGTTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCCTGGGGAAATATAAACTTTGTTGATTACACAGATACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGTGAAGCAGGATTAGTTATTCCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGAGAAAATGATAAAGAAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692

Qy	2473	GAAAAATATCTGGCAAAATCAAGGCTTGATCTTCGAATGTTACCTTATGGTTGCTCTGCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGCTTGATCTTCGAATGTTACCTTATGGATGTCTGCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAAAT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAGAAATTCACACTATAATGCAGATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGTAAGGAGGCGCTGAAAGGTGCACTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGGGAAATATATGATGCGGCCATCGATTGTTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATATTGTGTTGCCACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAT	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTTAAAGATGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTGGACACAGGATTC	2892
Db	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAGCGCGTGCCGTTTGTGTTTGGACACAAGATTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGGCAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073	TACATTGCAAGACCCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTCATG	3132
Db	3061	TACATTGCAAGACCCCTAGCTTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTCCAC	3192
Db	3121	AAACAAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA	3219
Db	3181	ACAATTAAGCAGCATGCTTTGAACTGA	3207

RESULT 13

US-08-780-872-35

; Sequence 35, Application US/08780872

; Patent No. 5846824

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
 ; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
 ; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
 ; APPLICANT: Stefano; Gout, Ivan Tarasovitch
 ; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
 ; TITLE OF INVENTION: THEIR PREPARATION AND USE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Felte & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 ; COMPUTER: IBM PS/2
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/780,872
 ; FILING DATE: 09-JAN-1997
 ; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/162,081
 ; FILING DATE: February 7, 1994
 ; APPLICATION NUMBER: PCT/GB93/00761
 ; FILING DATE: 13 April 1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Pasqualini, Patricia A.
 ; REGISTRATION NUMBER: 34,894
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; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 688-9200
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; INFORMATION FOR SEQ ID NO: 35:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3207 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear

US-08-780-872-35

Query Match 87.9%; Score 3008.6; DB 2; Length 3207;
 Best Local Similarity 96.1%;
 Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy 13 ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGGCATCCACTTGATGCCCAAGAATC 72
 |||

Db	1	ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGCATCCACTTGATGCCCCCAAGAATC	60
Qy	73	CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTAGAATGTTTACTACCAAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAAGTATAAAGCATGAAGTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	192
Db	121	ACGTTAATAACGATAAAGCATGAAGTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCACCATTTTTAAAA	312
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCACCCCTTTTTAAAA	300
Qy	313	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTTGCT	372
Db	301	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAAGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTCAATGTTTGTAAAGAAGCTGTGGATCTTAAGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTTTATCCTCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAAAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	672
Db	601	AATAATGACAACAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTATATTTTAAAGTGTTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840

Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTTGATGCTGATGGCTAAAGAAAGCCTCTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCAGACGCATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGTGCACCTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTTGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAATATTCGAGACATTGACAAGATTTATGTTTGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTC AAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTC AAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCTCTGATCTTCTCTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCCTGGGGAAATATAAACTTGTGTTGATTACACAGATACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTGCTGAACCCATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAATAAAGAAACTCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTTCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCCGAGAAGCAGGATTTAGTTATTCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGAGAAAAATGATAAAGAACAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692

Db	1621	TCTGAAATCACTGAGCAAGAGAAAGATTTTCTGTGGAGCCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCGAAATTTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTTCTAGAGATGAAGTA	1752
Db	1681	ATCCCGAAATTTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTTCTAGAGATGAAGTA	1740
Qy	1753	GCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACTGAACAGGCTATGGAA	1812
Db	1741	GCTCAGATGTACTGCTTGGTAAAGATTGGCCTCCAATCAAGCTGAACAGGCTATGGAG	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGA	1872
Db	1801	CTTCTGGACTGCAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTAGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTACAGTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTACCTAATTACAGCTAGTACAGGTACTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAGTATTTGGATAACCTGCTTGTGAGATTTTTACTCAAAAAGCGTTAACTAAT	1980
Qy	1993	CAAAGATTGGGCACCTTTTTCTTTTGGCATTAAAAATCTGAGATGCACAATAAACAGTT	2052
Db	1981	CAAAGGATCGGTCACCTTTTCTTTTGGCATTAAAAATCTGAGATGCACAATAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGAAG	2112
Db	2041	AGTCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGCCGTGCATGTGGGATGTATCTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGAAAAGCTCATTAACTTAACGTACATTCTCAA	2172
Db	2101	CACCTTAATAGGCAAGTTGAGGCTATGAAAAGCTCATTAACTTGACTGACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGAGG	2232
Db	2161	CAAGAGAAGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGCGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCTGCTCATCA	2292
Db	2221	CGACCAGATTTTCATGGATGCTCTCCAGGGCTTTCTGTCTCCTCTAAACCTGCTCATCAG	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTGGGAAATCTCAGGCTTGAAGAGTGTGCAATTATGCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCAGACATCATGTGTCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAACCAGACATCATGTGTCAGAAATTACTCTTTTCAGAACAAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATATTTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACCCCTCAGATTATTCGCATTATG	2460

Qy	2473	GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGATGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATGAGGTGGTGCAGAAATCTCACATATTATGCAAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAAGAAATCTCACACTATAATGCAGATT	2580
Qy	2593	CAGTGCAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGTAAGGAGGCCGTGAAAGGTGCACTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGGGAAATATATGATGCGGCCATCGATTGTGTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATAATTGTGTGTGCCACCTTCATTTGGGAATTGGAGATCGTCACAATAGTAAT	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTTAAAGATGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTGGTTATAAACGAGAACGIGTGCCATTGTTTTGACACAGGATTC	2892
Db	2821	AAGAAGAAAAAATTGGTTATAAACGAGAGCGCGTGCCGTTTGTGTTGACACAAGATTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAAGGCTTATCTAGCTATTTCGGCAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073	TACATTGCAAGACCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTGCAAGACCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA	3219
Db	3181	ACAATTAAGCAGCATGCTTTGAACTGA	3207

US-09-085-957-35

```

; Sequence 35, Application US/09085957
; Patent No. 6274327
; GENERAL INFORMATION:
;   APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
;   APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
;   APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
;   APPLICANT: Stefano; Gout, Ivan Tarasovitch
;   TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
;   TITLE OF INVENTION: THEIR PREPARATION AND USE
;   NUMBER OF SEQUENCES: 50
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Felfe & Lynch
;     STREET: 805 Third Avenue
;     CITY: New York
;     STATE: New York
;     COUNTRY: USA
;     ZIP: 10022
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
;     COMPUTER: IBM PS/2
;     OPERATING SYSTEM: PC-DOS
;     SOFTWARE: Wordperfect
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/085,957
;     FILING DATE:
;     CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: 08/780,872
;     FILING DATE: 09-JAN-1997
;     APPLICATION NUMBER: 08/162,081
;     FILING DATE: February 7, 1994
;     APPLICATION NUMBER: PCT/GB93/00761
;     FILING DATE: 13 April 1993
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Pasqualini, Patricia A.
;     REGISTRATION NUMBER: 34,894
;     REFERENCE/DOCKET NUMBER: LUD 5256
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: (212) 688-9200
;     TELEFAX: (212) 838-3884
;   INFORMATION FOR SEQ ID NO: 35:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 3207 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear

```

US-09-085-957-35

Query Match 87.9%; Score 3008.6; DB 3; Length 3207;
 Best Local Similarity 96.1%;
 Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy 13 ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC 72

Db	1		ATGCCTCCAAGACCATCATCAGGTGAAGTGTGGGCATCCACTTGATGCCCAAGAATC	60
Qy	73	CTAGTGGAAATGTTTACTACCAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132	
Db	61	CTAGTAGAATGTTTACTACCAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120	
Qy	133	ACATTAGTAATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	192	
Db	121	ACGTTAATAACGATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	180	
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252	
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240	
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTAAAA	312	
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTCAACCCTTTTAAAA	300	
Qy	313	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTGGCT	372	
Db	301	GTAATTGAACCGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATGGTTTGGCT	360	
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432	
Db	361	ATCGGCATGCCAGTGTGGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420	
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492	
Db	421	AGAAATATTCTCAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480	
Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552	
Db	481	AGTAGAGCAATGTATGTTTATCCTCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC	540	
Qy	553	ATATATAATAAAATGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612	
Db	541	ATATATAATAAAATGGATAAAGGGCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600	
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672	
Db	601	AATAATGACAAACAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660	
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATAAAA	732	
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAATAAAA	720	
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792	
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTATATTTTAAAGTGTGTGGATGTGATGAATAC	780	
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852	
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840	

Qy	853	AGGATGCCCAATTGGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTGATGCTGATGGCTAAAGAAAGCCTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGTGCACCTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTTCAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTTATGTTTCAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCCTTATGTGACAAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCTCTGATCTTCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGTTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTTGTTGATTACACAGACACTCTAGTATCTGGA AAA	1332
Db	1261	CCATTGGCCTGGGGAAATATAAACTTTGTTGATTACACAGATACTCTAGTATCTGGA AAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
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Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGTGAAGCAGGATTTAGTTATCCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGAGAAAATGATAAAGAACAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTACACAGACACTATTGTGTA ACT	1692

Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGCTCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGATGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAAAT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAGAAATTCACACTATAATGCAGATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGTAAGGAGGCGCTGAAAGGTGCACTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGGGAAATATATGATGCGGCCATCGATTGTTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATATTGTGTTGCCACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAT	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACGTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTTAAAGATGATGGACAACGTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTGTTTTGACACAGGATTTT	2892
Db	2821	AAGAAGAAAAAATTGGTTATAAACGAGAGCGCGTGCCGTTGTTTTGACACAAGATTTT	2880
Qy	2893	TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGGCAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073	TACATTGCAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTCATG	3132
Db	3061	TACATTGCAAGACCCCTAGCTTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTCCAC	3192
Db	3121	AAACAAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA	3219
Db	3181	ACAATTAAGCAGCATGCTTTGAACTGA	3207

RESULT 15

US-09-325-095-35

; Sequence 35, Application US/09325095

; Patent No. 7422849

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
 ; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
 ; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
 ; APPLICANT: Stefano; Gout, Ivan Tarasovitch
 ; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
 ; TITLE OF INVENTION: THEIR PREPARATION AND USE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Felte & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 ; COMPUTER: IBM PS/2
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/325,095
 ; FILING DATE:
 ; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 09/085,957
 ; FILING DATE:
 ; APPLICATION NUMBER: 08/780,872
 ; FILING DATE: 09-JAN-1997
 ; APPLICATION NUMBER: 08/162,081
 ; FILING DATE: February 7, 1994
 ; APPLICATION NUMBER: PCT/GB93/00761
 ; FILING DATE: 13 April 1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Pasqualini, Patricia A.
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; TELEPHONE: (212) 688-9200
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; INFORMATION FOR SEQ ID NO: 35:

; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 3207 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear

US-09-325-095-35

Query Match 87.9%; Score 3008.6; DB 8; Length 3207;
 Best Local Similarity 96.1%;

Matches 3083; Conservative		0;	Mismatches 124;	Indels	0;	Gaps	0;
Qy	13	ATGCCTCCAAGACCATCATCAGGTGAAC	CTGTGGGGCATCCACTTGATGCCCCAAGAATC	72			
Db	1	ATGCCTCCAAGACCATCATCAGGTGAAC	CTGTGGGGCATCCACTTGATGCCCCAAGAATC	60			
Qy	73	CTAGTGGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132				
Db	61	CTAGTAGAATGTTTACTACCAAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120				
Qy	133	ACATTAGTAACATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCCTCTCCATCAA	192				
Db	121	ACGTTAATAACGATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCCTCTCCATCAA	180				
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252				
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240				
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312				
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCCTTTTTAAAA	300				
Qy	313	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	372				
Db	301	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	360				
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432				
Db	361	ATCGGCATGCCAGTGTGTGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420				
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492				
Db	421	AGAAATATTCTCAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480				
Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552				
Db	481	AGTAGAGCAATGTATGTTTATCCTCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC	540				
Qy	553	ATATATAATAAAATGGATAGAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	612				
Db	541	ATATATAATAAAATGGATAAAGGGCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	600				
Qy	613	AATAATGACAAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAAGTA	672				
Db	601	AATAATGACAAACAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAAGTA	660				
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATAAAA	732				
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAACATAAAA	720				
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792				
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTATATTTTAAAGTGTGTGGATGTGATGAATAC	780				

Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTGATGCTGATGGCTAAAGAAAGCCTCTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGTGCACCTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTC AAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTC AAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCTCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGTTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCCTGGGGAAATATAAACTTGTTTGATTACACGATACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTGCTGAACCCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAAGTATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAAGTATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGTGAAGCAGGATTAGTTATTCCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632

Db	1561	AATGAATTAAGAGAAAATGATAAAGAACAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	TCTGAAATCACTGAGCAAGAGAAAAGATTTTCTGTGGAGCCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCTCAGATGTACTGCTTGGTAAAAGATTGGCCTCCAATCAAAGCTGAACAGGCTATGGAG	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGCAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCCGGTGCTTAGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTACAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTACCTAATTACAGCTAGTACAGGTAATAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAGTATTTGGATAACCTGCTTGTGAGATTTTTACTCAAAAAGCGTTAACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2052
Db	1981	CAAAGGATCGGTCACCTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCTGTCATGTGGGATGTATTGAAG	2112
Db	2041	AGTCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGCCGTGCATGTGGGATGTATCTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAAGTACATCTCTAAA	2172
Db	2101	CACCTTAATAGGCAAGTTGAGGCTATGAAAAGCTCATTAACTTGACTGACATCTCTAAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGAGG	2232
Db	2161	CAAGAGAAGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGCGG	2220
Qy	2233	CGACCAGATTTTATGGATGCCCTACAGGGCTTGTCTCTCTCTAAACCTGCTCATCAA	2292
Db	2221	CGACCAGATTTTATGGATGCTCTCCAGGGCTTCTGTCTCTCTAAACCTGCTCATCAG	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTGGGAAATCTCAGGCTTGAAGAGTGTGCAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCAGACATCATGTGCAGATTACTGTTTCAGACAATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAACCAGACATCATGTGCAGATTACTCTTTCAGACAATGAGATCATC	2400

Qy	2413	TTTAAAAATGGGGATGATTTCACGGCAAGATATGCTAACACCTTCAAATTATTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTCACGGCAAGATATGCTAACCCCTTCAGATTATTCGCATTATG	2460
Qy	2473	GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGATGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACTATTATGCAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAGAAATCTCACACTATAATGCAGATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACCTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGTAAGGAGGCCCTGAAAGGTGCACCTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGGGAAATATATGATGCGGCCATCGATTGTTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATATTGTGTTGCCACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAT	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTTAAAGATGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTGGACACAGGATTTC	2892
Db	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAGCGCGTGCCGTTTGTGTTTGGACACAAGATTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAAGGCTTATCTAGCTATTCGGCAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073	TACATTTCGAAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTTCGAAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA	3219

Db 3181 ACAATTAAGCAGCATGCTTTGAACTGA 3207

Search completed: January 18, 2011, 09:34:44
Job time : 577.659 secs

SCORE 9.0